

CLAIMS

1. A hardcoat agent composition which comprises a fluorine-containing polyether compound (A) having a perfluoropolyether unit, urethane bond and active energy ray reactive group and a curable compound (B) having equal to or more than 2 active energy ray polymerizing groups in the molecule.

10 2. The hardcoat agent composition of Claim 1 wherein the fluorine-containing polyether compound (A) is contained in a range from 0.01 parts by weight or greater to 3 parts by weight or less in relation to 100 parts by weight of a nonvolatile part in the said composition.

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3. The hardcoat agent composition of Claim 1 or Claim 2 wherein the curable compound (B) contains 65 to 100 % by weight of a curable compound (Bt) having 3 or more active energy ray polymerizing groups in the molecule and 0 to 35 % by weight of a curable compound (Bd) having 2 active energy ray polymerizing groups in the molecule on the basis of the curable compound (B).

4. The hardcoat agent composition of anyone of Claims 1 to 3 wherein the fluorine-containing polyether compound (A)

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has the number average molecular weight ranging from 500 or greater to 10,000 or less on the basis of polystyrene standard determined by GPC (Gel Permeation Chromatography).

5 5. The hardcoat agent composition of any one of Claims 1 to 4 wherein the fluorine-containing polyether compound (A) has 2 or more active energy ray reactive groups in the molecule.

10 6. The hardcoat agent composition of any one of Claims 1 to 5 wherein active energy ray reactive groups contained in the fluorine-containing polyether compound (A) are selected from groups consisting of an (meth)acryloyl group and vinyl group.

15 7. The hardcoat agent composition of any one of Claims 1 to 6 wherein the fluorine-containing polyether compound (A) is a compound in which (meth)acryloyl is introduced via urethane bond into a hydroxyl group of a fluorine-containing polyether compound having a hydroxyl group at the end and also having
20 a perfluoropolyether unit.

 8. The hardcoat agent composition of any one of Claims 1 to 7 wherein additionally contained are inorganic microparticles (C) with a mean particle diameter of 100nm or
25 less.

9. The hardcoat agent composition of Claim 8 wherein the inorganic microparticles (C) ranging from 5 parts by weight or greater to 500 parts by weight or less are contained in relation to 100 parts by weight of the curable compound (B).

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10. The hardcoat agent composition of Claim 8 or Claim 9 wherein the inorganic microparticles (C) are microparticles of metal or metalloid oxide or microparticles of metal or metalloid sulfide.

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11. The hardcoat agent composition of anyone of Claims 8 to 10 wherein the inorganic microparticles (C) are silica microparticles.

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12. The hardcoat agent composition of anyone of Claims 8 to 11 wherein the inorganic microparticles (C) are surface-modified by a hydrolysable silane compound having an active energy ray reactive group.

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13. A thing whose surface is given a hardcoat layer having a curable substance of the hardcoat agent composition described in any one of Claims 1 to 12.

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14. An optical information medium comprising:
a supporting substrate;

a film substance composed of single or multiple layers containing at least a recording layer or a reflecting layer on the supporting substrate; and

a hardcoat layer containing a curable substance of the
5 hardcoat agent composition of any one of Claims 1 to 12, formed on at least either a surface of the above-mentioned supporting substrate or a surface the above-mentioned film substance.

15. The optical information medium of Claim 14 wherein,
10 regarding the surface of the above-mentioned supporting substrate and that of the above-mentioned film substance, a surface which is to be a light entering side is formed by the above-mentioned hardcoat layer.

15 16. An optical information medium having an information recording layer on the supporting substrate and a light transmitting layer on the information recording layer, and the optical information medium having a hardcoat layer containing a curable substance of the hardcoat agent composition
20 of any one of Claims 1 to 12 on the light transmitting layer.